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STROBOSCOPE TACHOMETER

MODEL: PST30

OPERATION MANUAL

CAUTION

- Do not look directly at strobe or shine at others. Light pulses at a frequency greater than 5 Hz may cause photosensitive epilepsy in some individuals if directly viewed.
- To Avoid Injury, do not point the light beam of the instrument or have it reflected into the eyes of people or animals.
- A feature of the instrument is to make moving objects appear to be stationary. Precaution should therefore be taken to ensure that there is no physical contact made with objects being viewed.
- Do not leave the device close to water or any other liquid to avoid damage.
- If not using this instrument for extended periods of time, remove the batteries to prevent potential battery leakage which may damage the product.
- This instrument contains no user serviceable parts and should not be opened by the user.
- Repair or service should be done by a qualified technician only.
- Only use a dry cloth to clean the plastic case.

FEATURES

The Digital Stroboscope has a microprocessor circuit design, high accuracy, digital readout, that is ideal for inspecting and measuring the speed of moving gears, fans, centrifuges, pumps, motors and other equipment used in general industrial maintenance, production, quality control, laboratories, and as well as for schools and colleges for demonstrating strobe action.

SPECIFICATIONS

Measuring range: 60~19999 RPM (round per minute) / FPM (flashes per minute.)

Accuracy: 0.05%

Resolution: Less than 1000RPM: 0.1RPM/FPM

More than 1000RPM: 1RPM/FPM

Display: 19999

Power: 4×1.5V R6P.AA.UM-3 battery

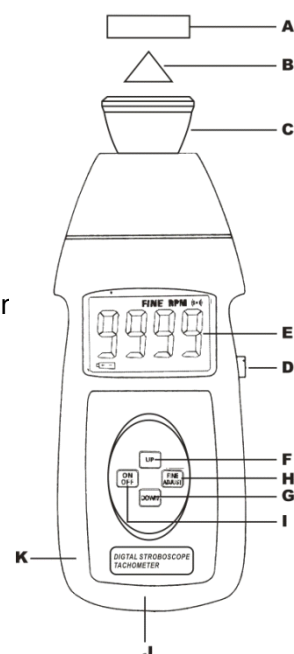
Battery consumption: Approx.60mA

Dimension: 8.03"(204mm)×2.87"(73mm)×1.38"(35mm)

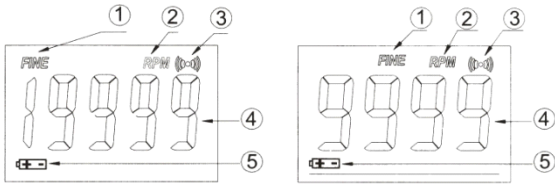
Weight: Approx. 200g

PANEL DESCRIPTION

- A: The object
B: Light beam
C: Lens
D: Flash Switch
E: LCD display
F: Flash Rate Value Increase Button
G: Flash Rate Value Decrease Button
H: Coarse/ Fine Tuning Button
I: Power button
J: Battery cover
K Backlight switch



DISPLAY DESCRIPTION



1. To alter between Coarse and Fine tuning, select the Coarse / Fine Tuning button to change from Coarse to Fine adjustment.

Press again to switch back to Coarse. When in Fine adjustment mode, "FINE" icon will appear on the display.

2. Tach unit symbol, indicator rotation per minute.

3. Indicator symbol, represent in measuring.

4. Measuring data.

5. Low battery indicator symbol.

OPERATION INSTRUCTION

Power ON/OFF: Open the battery compartment cover on the back of the unit and place the batteries in the battery holder properly. Then press and hold the Power Switch. The display will turn on and show the initial factory default flash rate of 1200 RPM. Coarse tuning is the default.

Manual Adjust TACH

In COARSE adjust mode, press "up" or "down" button, the value of flash will increase or decrease when the range is greater than 1000 RPM or 10 RPM when less than 1000 RPM correspondingly. In FINE adjust mode, press "UP" or "Down" button, the PHOTO TACH will increase or decrease 1 RPM when greater than 1000 RPM, or 0.1RPM when less than 1000 RPM correspondingly.

Auto Adjust TACH

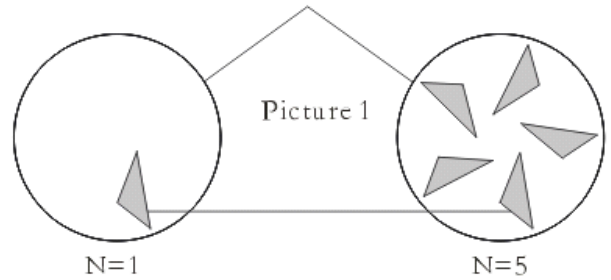
Press "UP" or "Down" button for more than two seconds to enter the Auto-adjust Mode. In COARSE adjust mode, the value will increase or decrease when the range is greater than 1000 RPM or 10 RPM when less than 1000 RPM every 0.2 seconds. In FINE adjust mode, the value will increase or decrease 1RPM (>1000 RPM) or 0.1 RPM (<1000RPM) every 0.2 seconds

Note: Once the maximum of 19999 or minimum of 60 RPM is met while adjusting the rate, the device will

automatically stop at those thresholds.

TACH measuring

The Stroboscope will also stop motion at 2:1, 3:1, 4:1, 5:1, etc. This is normally referred to as harmonics. To ensure unison, turn the dial until two images appear – this will double the actual speed. Then lower the flashing rate until a single and stationary image appears - this is the actual true speed.



Checking motion

For motion analysis, simply locate the actual speed as mentioned above and then turn the dial slowly up or down. This will give a slow motion effect allowing complete inspection.

The manual contents are subject to change without notice.
The Company does not take any responsibility for accidents that result out of error during operation of our unit.